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Response to Office Action Dated 06/26/2006

In the Claims

1
2 1. (Currently Amended) A processor-readable medium comprising
3 processor-executable instructions for generating a PDF (portable document
4 format) document from a PPML (personalized print markup language) document,
5 the processor-executable instructions comprising instructions for:

6 parsing structures within the PPML document;
7 generating a PDF document tree; and
8 interpreting the parsed structures from the PPML document onto locations
9 on the PDF document tree; and
10 configuring a PDF document according to the PDF document tree.

11
12 2. (Currently Amended) The processor-readable medium of claim 1,
13 additionally comprising instructions for:

14 configuring a PDF document according to the PDF document tree; and
15 printing the PDF document.

16
17 3. (Currently Amended) A processor-readable medium as recited in
18 claim 1, wherein interpreting the parsed structures comprises instructions for:

19 resolving, for objects within the PPML (personalized print markup
20 language) document, a PPML SOURCE_TYPE class; and
21 translating the objects according to the PPML SOURCE_TYPE class.

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1 4. (Currently Amended) A processor-readable medium as recited in
2 claim 1, wherein interpreting the parsed structures comprises instructions for:
3 un-marshalling a PPML instance, when a PPML (personalized print markup
4 language) tag refers to an external object; and
5 embedding the external object into the PDF document.

6
7 5. (Currently Amended) A processor-readable medium as recited in
8 claim 4, wherein the external object to which the PPML (personalized print
9 markup language) tag refers includes fonts and images.

10
11 6. (Currently Amended) A processor-readable medium as recited in
12 claim 1, wherein interpreting the parsed structures comprises instructions for:
13 resolving references within the parsed structures into PDF (portable
14 document format) assets; and
15 incorporating the PDF assets into the PDF document.

16
17 7. (Currently Amended) A processor-readable medium as recited in
18 claim 6, wherein resolving references comprises instructions for:
19 resolving an image asset into an InputSource object using a PPML
20 (personalized print markup language) structure; and
21 incorporating the image asset into the PDF document.

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1 8. (Currently Amended) A processor-readable medium as recited in
2 claim 7, wherein the PPML (personalized print markup language) structure
3 comprises:

4 <SOURCE Format="image/jpeg" Dimensions "dim1 dim2">
5 <EXTERNAL_DATA_ARRAY Src="filename.jpg"/>
6 </SOURCE>

7
8 9. (Currently Amended) A processor-readable medium as recited in
9 claim 1, wherein interpreting the parsed structures comprises instructions for:
10 resolving assets within the parsed structures into objects; and
11 incorporating the objects into the PDF (portable document format)
12 document.

13
14 15. (Currently Amended) A processor-readable medium as recited in
15 claim 9, wherein resolving assets comprises instructions for:
16 using a PPML (personalized print markup language) structure to translate
17 an asset into an iText font representing a TTF font.

18
19 20. (Currently Amended) A processor-readable medium as recited in
20 claim 1, wherein interpreting the parsed structures comprises instructions for:
21 reutilizing PPML (personalized print markup language) global objects
22 found within the PPML document with a PPML structure, wherein the PPML
23 global objects are configured as REUSABLE_OBJECT_TYPE.

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1 12. (Currently Amended) A processor-readable medium as recited in
2 claim 1, wherein interpreting the parsed structures comprises instructions for:
3 locating PPML (personalized print markup language) global impositions
4 when parsing the structures within the PPML document; and
5 reutilizing the PPML global impositions.

6
7 13. (Currently Amended) A processor-readable medium as recited in
8 claim 12, wherein reutilizing PPML (personalized print markup language) global
9 impositions comprises instructions for:
10 reutilizing IMPOSITION_TYPE instances.

11
12 14. (Currently Amended) A system for converting a PPML
13 (personalized print markup language) document into a PDF document,
14 comprising:
15 a first component, operable on a processor, to parse structures and tag items
16 within the PPML document;

17 a second component, operable on the processor, to generate a PDF
18 document tree; and

19 a third component, operable on the processor, to translate the tagged items
20 within the PPML document, and to locate the translated items on the PDF
21 document tree.

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1 15. (Currently Amended) The system of claim 14, additionally
2 comprising:

3 a forth component to un-marshall PPML (personalized print markup
4 language) instances of external objects for embedding within the PDF document
5 tree.

6 16. (Currently Amended) The system of claim 14, wherein the forth
7 component comprises:

8 a SourceResolver to resolve references into assets for attachment to the
9 PDF (portable document format) document tree;

10 a FontResolver Interface to resolve fonts for access by the PDF document;
11 an OccurrenceStore Interface to reutilize PPML (personalized print markup
12 language) global objects for access by the PDF document; and

13 an ImpositioningStore to reutilize PPML global impositions for access by
14 the PDF document.

15 17. (Currently Amended) The system of claim 14, additionally
16 comprising:

17 a fourth component to resolve PPML SOURCE_TYPE class of the
18 structures within the PPML (personalized print markup language) document.

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1 18. (Original) The system of claim 14, wherein the third component
2 translates the items tagged as a function of a type associated with each of the items
3 tagged.

4

5 19. (Currently Amended) The system of claim 14, wherein the third
6 component is configured to translate a PDF (portable document format) object
7 within a PdfTemplate defined as a function of an item type of the tagged items
8 found during parsing by the first component.

9

10 20. (Currently Amended) The system of claim 19, wherein the
11 PdfTemplate is configured to support caching of objects to optimize PDF (portable
12 document format) structure.

13

14 21. (Currently Amended) A PPML (personalized print markup
15 language) to PDF (portable document format) converter for converting a PPML
16 document into a PDF document, comprising:

17 means for parsing structures within the PPML document;
18 means for generating a PDF document tree; and
19 means for interpreting the parsed structures from the PPML document onto
20 locations on the PDF document tree;
21 wherein the means for parsing, means for generating and the means for
22 interpreting are performed in part by operation of a processor.

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1 22. (Currently Amended) The PPML (personalized print markup
2 language) to PDF (portable document format) converter as recited in claim 21,
3 wherein the means for interpreting comprises:

4 means for un-marshalling a PPML instance, when a PPML tag set by the
5 means for parsing refers to an external object; and

6 means for embedding the external object into the PDF document.

7
8 23. (Currently Amended) The PPML (personalized print markup
9 language) to PDF (portable document format) converter of claim 21, additionally
10 comprising:

11 means for resolving references into assets for attachment to the PDF
12 document tree;

13 means for resolving fonts for access by the PDF document;

14 means for reutilizing PPML global objects for access by the PDF
15 document; and

16 means for reutilizing PPML global impositions for access by the PDF
17 document.

18
19 24. (Currently Amended) The system of claim 21, additionally
20 comprising:

21 means for resolving, for objects within the PPML (personalized print
22 markup language) document, a PPML SOURCE_TYPE class; and

23 means for translating the objects according to the PPML SOURCE_TYPE
24 class.

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1
2 25. (Currently Amended) A method for converting a PPML
3 (personalized print markup language) document into a PDF document,
4 comprising:

5 parsing structures within the PPML document;
6 generating a PDF document tree; and
7 interpreting the parsed structures from the PPML document onto locations
8 on the PDF document tree; and
9 wherein the parsing, the generating and the interpreting are performed in
10 part by operation of a processor, which generates the PDF document.

11
12 26. (Currently Amended) The method of claim 25, wherein interpreting
13 the parsed structures comprises:

14 un-marshalling a PPML (personalized print markup language) instance,
15 when a PPML tag set during parsing refers to an external object; and
16 embedding the external object into the PDF (portable document format)
17 document.

18
19 27. (Currently Amended) The method of claim 25, wherein interpreting
20 the parsed structures comprises instructions for:

21 resolving references within the parsed structures into PDF (portable
22 document format) assets; and
23 incorporating the PDF assets into the PDF document.

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1 28. (Currently Amended) The method of claim 27, wherein resolving
2 references comprises instructions for:

3 resolving an image asset into an InputSource object using a PPML
4 (personalized print markup language) structure; and
5 incorporating the image asset into the PDF document.

6

7 29. (Withdrawn) A processor-readable medium comprising processor-
8 executable instructions for:

9 processing a PDF document to produce a PPML document, wherein the
10 processing comprises instructions for:

11 converting a PDF element within the PDF document into a variable
12 object;

13 generating a macro to contain rules governing operation of the
14 variable object; and

15 configuring the PPML document to include the variable object, the
16 macro and the PDF document, wherein the PDF document is configured as a
17 background within the PPML document; and

18 checking accuracy of the PPML document by producing a PDF document
19 from the PPML document.

20

21 30. (Withdrawn) The processor-readable medium of claim 29, wherein
22 checking accuracy comprises instructions for:

23 parsing structures within the PPML document;
24 generating a PDF document tree; and

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1 interpreting the parsed structures from the PPML document onto locations
2 on the PDF document tree.

3
4 31. (Withdrawn) The processor-readable medium of claim 29,
5 additionally comprising instructions for:

6 configuring a PDF document according to the PDF document tree; and
7 printing the PDF document.

8
9 32. (Currently Amended) A method for printing a PDF (portable
10 document format) file, comprising:

11 sending a PPML (personalized print markup language) file to a PPML to
12 PDF converter;

13 converting the PPML file into the PDF file, wherein the converting is
14 performed by operation of a processor and wherein the converting
15 comprises:

16 parsing and tagging items within the PPML file and translating the
17 tagged items; and

18 generating a PDF document tree; and

19 interpreting the parsed structures from the PPML document onto
20 locations on the PDF document tree; and
21 printing the PDF file.

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1 33. (Currently Amended) A system for printing a PDF (portable
2 document format) file, comprising:

3 a PPML (personalized print markup language) to PDF converter,
4 configured to receive a PPML file and configured to create the PDF file; and by:

5 parsing structures within the PPML document;

6 generating a PDF document tree;

7 interpreting the parsed structures from the PPML document onto
8 locations on the PDF document tree; and

9 a printing device, to print the PDF file.

10
11 34. (Currently Amended) The system of claim 33, wherein the PPML
12 (personalized print markup language) to PDF (portable document format)
13 converter comprises:

14 a parsing and tagging component configured to parse the PPML file and
15 locate references to assets;

16 a translation component, to translate the assets located by the references;
17 and

18 a PDF tree-generating component, to generate a PDF tree to form the PDF
19 file according to the translated assets.